

CLIMATOLOGICAL DATA FOR JANUARY, 1912.

DISTRICT NO. 12, COLUMBIA VALLEY.

EDWARD A. BEALS, District Editor.

GENERAL SUMMARY.

The first decade was unusually cold, and the remainder of the month was mild. Prior to the cold period heavy snow fell in the valleys and the ground was well protected. At the beginning of the second decade a general thaw set in which rapidly melted the snow on the lower elevations. It was during this thaw that a number of avalanches occurred in Montana, Idaho, and northeastern Oregon. Several lives were lost in Idaho, but so far as known none was lost in Oregon or Montana. Between the 10th and 14th railway traffic on the Great Northern and on the Oregon-Washington Railroad in Montana and Oregon was blocked or seriously interrupted by slides. Much of the water from the melting snow soaked into the ground and no very damaging floods occurred, although many streams ran bank full for a few days. At the headwaters of the Columbia River in Montana the snow at the end of the month was reported in amount to be less than usual, but it was solidly packed, which indicates that an average flow of water may be expected in the spring. During the latter part of the month country roads became very muddy, and the hauling of produce proceeded with difficulty. Stock did well, and the amount of hay used for winter feeding was less than usual.

During a storm on the 13th the four-masted schooner *Admiral* lost her bearings and ran into the jetty at the mouth of the Columbia River. The crew were saved by jumping from the ship to the jetty, but the vessel was a total loss. Her carrying capacity was 653 tons net, and she was worth about \$25,000. Ample warning of the storm was given by the Weather Bureau.

TEMPERATURE.

The average temperature as determined from 268 stations was 30.2° , or 0.5° above the normal. The mean temperatures were lowest in the upper Columbia Valley in Washington, near the headwaters of the branches in Montana, and in the upper Snake River Valley in southeastern Idaho and western Wyoming. The mildest weather occurred west of the Cascade Mountains. The coldest weather of the month occurred during the first decade, at which time the minimum temperatures for the month were recorded at most stations in the district. During the last two decades the weather was generally mild, with temperatures above normal in nearly all portions of the district.

The highest mean temperature was 48.0° at Gold Beach, Oreg., and the lowest 11.2° at Camas, Idaho. The highest temperature recorded was 68° at Quinault, Wash., on the 31st, and the lowest -36° at Roseberry, Idaho, on the 8th.

PRECIPITATION.

The average precipitation as determined from the records of 369 stations was 5.48 inches, or 1.64 inches above the normal. About the only deficiencies were in

south-central Oregon, northwestern and central-eastern Washington, extreme northern and central Idaho, and southwestern Montana. The greatest excesses were near the northern Oregon coast and along the western slope of the Cascade Mountains in Oregon. Except during the first four days of the month, and approximately from the 15th to the 20th, the precipitation was generally quite well distributed throughout January. The greatest monthly amount recorded was 32.45 inches at Glenora, Oreg., and the least, 0.21 inch at Camas, Idaho. The snowfall was rather less than usual, and less than the normal amount remained on the ground in most sections at the close of the month. The greatest monthly amount was 96.0 inches at Snoqualmie Pass, Wash.

THE RIVERS.

The rivers were higher than in December and considerably above the normal. A freshet occurred in the Willamette River about the middle of the month, and flood warnings were issued to all dock and warehouse interests. The height of the flood crest at Portland was successfully predicted. The maximum stage, 17.3 feet, occurred as expected on the 16th, and it differed from the forecast only two-tenths of a foot. The river was above the flood stage at Portland for three days, from the 15th to the 17th, inclusive.

As the freshet subsided the Willamette River continued to fall until the 26th, when the heavy rains again caused a gradual rise. At the close of the month all streams were above normal, but were falling slightly.

The Snake River was about normal and the Columbia River from 1 to 4 feet below normal. The average stages in both were higher than in December. The lowest stages occurred early in the month and the highest at the close of the month.

(A full report covering the freshet in the Willamette River is contained in a special article herewith.)

MISCELLANEOUS PHENOMENA.

A very severe sleet and ice storm was experienced in the lower Willamette Valley beginning before noon on the 6th and ending with the rapid rise in temperature that occurred shortly after midnight on the 9th. Ice about an inch in thickness formed on wires and other exposed objects. Power and light wires, telephone and telegraph wires, and shade trees were badly damaged, and the loss is estimated to be not less than \$200,000. Sleet was reported at a number of stations west of the Cascade Mountains on the 8th, and on the 12th it occurred along the Columbia River from the Dalles to Umatilla. The highest wind velocity was 74 miles from the southeast on the 26th at North Head, Wash. Thunder was heard at Doreville, Oreg., on the 18th. Dense fogs were quite general throughout the district about the middle and during the latter part of the month.

TABLE 1.—Climatological data for January, 1912. District No. 12, Columbia Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Montana.																				
Anaconda.....	Deer Lodge.....	5,300	10	26.6	+ 3.0	52	15	- 8	27	0.52	- 0.39	7.0	4	8	11	12	w.	C. D. Demond.		
Butte.....	Silver Bow.....	5,716	17	25.4	+ 1.8	48	14	- 7	3	0.28	- 0.58	0.12	3.5	3	11	9	11	sw.	J. R. Wharton.	
Columbia Falls.....	Flathead.....	3,100	16	19.4	- 2.9	49	30	- 23	7	33.9	+ 1.77	0.90	40.9	13	9	4	18	s.	J. M. Grist.	
Como.....	Ravall.....	3,700	3	29.8	-	54	14	- 5	7	24	1.14	-	0.23	13.0	11	4	16	w.	Hiram Platt.	
East Anaconda.....	Deer Lodge.....	5,500	6	26.8	-	52	14	- 6	6	0.68	-	0.36	6.6	8	8	11	12	w.	C. D. Demond.	
Fortine.....	Lincoln.....	2,975	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Mike Petery.		
Hamilton.....	Ravall.....	3,575	9	28.0	+ 1.6	56	14†	- 7	4†	0.51	- 0.53	0.22	-	5	9	13	9	e.	Bitter Root Valley Irrigation Co.	
Hat Creek.....	Powell.....	6,000	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	M. K. Landreth.	
Kalispell.....	Flathead.....	2,945	13	20.0	+ 0.4	46	30	- 15	8	24	1.16	+ 0.10	0.60	19.9	14	3	5	nw.	U. S. Weather Bureau.	
Libby.....	Lincoln.....	2,055	2	21.4	-	50	30	- 23	8	29	1.09	-	0.23	11.0	7	10	10	nw.	U. S. Forest Service.	
Lost Creek.....	Deer Lodge.....	5,200	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Frank Henault.		
McGinnis Meadows.....	Lincoln.....	1	23.1b	-	-	47	29	- 18 ^b	8	28 ^b	1.27	-	0.45	6.7	8	6 ^b	12 ^b	sw.	H. L. Beebe.	
Missoula.....	Missoula.....	3,225	32	26.6	+ 2.4	47	13	- 10	8	29	1.32	- 0.07	0.24	9.5	9	-	-	w.	U. S. Weather Bureau.	
Ophir.....	Powell.....	6,800	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E. S. Wilton.		
Orondo.....	do.....	4,207	12	18.3	+ 2.6	46	28	- 26	8	30	3.06	+ 1.16	0.40	36.1	18	0	31	w.	S. B. Muchmore.	
Philipsburg.....	Granite.....	5,275	8	23.3 ^a	-	53 ^k	15	- 5 ^k	3	39 ^k	0.50	-	0.30	6.0	3	11 ^k	4 ^k	5 ^k	sw.	G. T. Bramble.
Plains.....	Sanders.....	2,475	13	25.8	+ 0.4	50	14†	- 10	8	38	0.72	- 0.20	0.36	8.0	3	13	1	17	s.	M. H. Pierce.
Pleasant Valley.....	Flathead.....	3,500	4	18.2	-	48	14	- 34	8	1.63	-	0.40	17.0	15	0 ^c	14 ^c	14 ^c	w.	A. D. Stillman.	
Polson.....	do.....	2,920	4	27.6	-	57	26	2	9	25	1.41	-	0.90	12.0	6	-	-	w.	F. P. Brown.	
Procter.....	do.....	2,800	7	24.1 ^c	-	47 ^d	30	- 10 ^b	7	31 ^d	1.09	-	0.40	13.0	6	13 ^c	0 ^c	13 ^c	w.	C. E. Proctor.
St. Ignatius.....	Missoula.....	2,700	6	25.2	-	52	29	- 18	8	36	0.92	-	0.31	12.5	6	2	21	n.	U. S. Reclamation Service.	
Saltse.....	do.....	3,600	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	E. K. Tarbox.	
Stevensville.....	Ravall.....	-	22.8 ^a	-	-	52 ^a	14	- 8	8	42 ^a	0.74	-	0.16	2.2	7	12	4	14	sw.	J. S. Birre.
Thompson Falls.....	Sanders.....	2,462	26.4	-	-	53	29	- 10	8	28	1.93	-	0.44	16.2	12	7	8	16	w.	R. H. Bushnell.
Willow Glen Stock Farm.....	Deer Lodge.....	5,064	1	24.6 ^c	-	55 ^c	14	- 12	2	33 ^c	-	-	-	-	16	6	9	sw.	G. E. Luce.	
Wyoming.																				
Afton.....	Uinta.....	6,200	8	22.4	+ 4.3	51	26	- 26	8	46	1.03	- 0.38	0.60	31.0	13	8	2	21	w.	A. V. Call.
Alta.....	do.....	7,000	2	18.6	-	43	15	- 28	8	39	1.49	-	0.34	22.8	11	4	3	24	sw.	Mrs. Lucy Brown.
Beechler River.....	Yellowstone Park.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	s.	U. S. Army.	
Bedford.....	Uinta.....	5,000	12	19.9	+ 1.5	48	25	- 23	8	34	3.19	+ 1.01	0.95	31.9	10	0	4	18	w.	C. G. Helmer.
Moran.....	do.....	12.2	-	-	-	41	25	- 32	4	40	3.49	-	0.60	37.3	13	2	12	17	w.	U. S. Reclamation Service.
Snake River.....	Yellowstone Park.....	7,000	6	16.8	-	48	22	- 23	8	52	1.42	-	0.30	20.0	8	6	10	15	w.	U. S. Army.
Nevada.																				
San Jacinto.....	Elko.....	-	7	28.6	-	62	28	- 18	3	46	0.25	-	0.20	2.5	2	13	0	18	sw.	Mose Jones.
Utah.																				
Standrod.....	Boxelder.....	-	7	29.9	-	50	19	- 6	8	28	0.74	-	0.35	9.4	7	11	8	12	sw.	J. B. Jones.
Idaho.																				
Albion.....	Cassia.....	4,650	10	29.3	- 0.3	57	13	- 12	4†	48	0.57	-	0.36	5.5	5	4	16	11	w.	C. E. Bocock.
Almo.....	do.....	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	Wm. D. Cahoon.	
Alpha.....	Boise.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	J. W. King.	
American Falls.....	Oneida.....	4,341	20	24.8	0.0	50	26	- 2	9	36	2.81	+ 1.23	0.72	25.0	7	20	4	7	n.	George Stoll.
Arrow Rock.....	Boise.....	-	-	-	-	46	26	- 8	8	28	4.99	-	1.55	29.5	17	7	14	10	e.	U. S. Reclamation Service.
Blackfoot.....	Bingham.....	4,503	17	23.8	+ 0.9	48	25	- 20	4	35	1.04	+ 0.01	0.30	10.4	10	5	11	5	w.	E. A. Dowd.
Blackfoot Dam.....	Bannock.....	6,200	3	17.6	-	40	26	- 33	8	43	2.14	-	0.48	20.5	10	7	5	19	sw.	N. W. Irsfeld.
Bucks Ranch.....	Elmore.....	3,500	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	Wm. Bock.	
Rogus Creek.....	Boise.....	4,200	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	F. P. Ingraham.	
Boise.....	Ada.....	2,739	27	28.8	- 0.5	56	24	- 5	8	30	2.53	+ 0.64	0.83	15.6	18	4	6	21	n.	U. S. Weather Bureau.
Bonners Ferry.....	Bonneville.....	1,850	5	24.2	-	51	29	- 10	7	27	1.93	-	0.75	16.5	10	15	11	11	sw.	W. H. Heideman.
Boulder Mine.....	Boise.....	4,800	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	Patrick Mortarty.	
Buhl.....	Twin Falls.....	3,800	5	29.8	-	52	26	- 2	4	26	1.40	-	0.80	6.0	5	16	10	5	w.	Hugh Taylor.
Caldwell.....	Canyon.....	2,372	8	26.2	-	57	26	- 23	8	38	2.69	-	0.95	21.5	9	3	11	17	w.	Wm. J. Boone.
Carnas.....	Fremont.....	4,815	4	11.2	-	42	26	- 33	8	47	0.21	-	0.06	4.5	5	17	13	1	sw.	Mrs. Edna Faulkner.
Cambridge.....	Washington.....	2,651	16	20.6	- 2.4	45	26	- 28	8	33	2.45	+ 0.71	0.50	34.0	12	2	3	26	w.	Chas. H. Shepherd.
Cedar Creek Dam.....	Twin Falls.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	Robert Hoffman.	
Chesterfield.....	Bannock.....	5,424	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	Chas. S. West.	
Clark Fork.....	Kootenai.....	2,084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	Wm. Potter.	
Clyde.....	Custer.....	1	19.4 ^b	-	-	42	14	- 8	2†	-	-	-	-	-	-	-	-	w.	R. L. Sutcliffe.	
Council.....	Adams.....	-	22.1	-	-	44	14	- 15	8	30	4.60	-	1.42	20.0	10	10	5	16	n.	F. L. Featherston.
Culdesac.....	Nez Perce.....	1,520	4	31.1	-	50	14†	- 12	8	37	3.29	-	1.25	2.0	5	5	14	12	n.	R. R. Richmond.
Deary.....	Latah.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	W. J. Davis.	
Dent.....	Clearwater.....	1,350	6	30.4	-	49	18†	- 13	8	38	4.72	-	0.87	11.5	12	4	11	16	n.	Emil Schuessler.
Driggs.....	Fremont.....	6,097	5	17.1	-	44	25	- 30	8	44	1.24	-	0.46	13.0	7	4	23	s.	W. H. Durrant.	
Emmett.....	Canyon.....	2,350	6	27.5	-	47	12†	- 16	8	33	2.11	-	0.61	19.7	11	1	3	27	w.	C. P. Kar.
Forney.....	Lemhi.....	11	22.2	+ 1.4	55	14	- 22	8	41	-	4.56	-	1.01	28.6	11	5	19	7	w.	M. B. Merritt.
Garden Valley.....	Boise.....	3,600	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	Mrs. Gertrude M. Ross.	
Garnet.....	Elmore.....	2,575	13	32.6	- 1.6	59	26	1	8	31	4.48	-	0.90	32.3	15	9	15	7	w.	A. A. Kenison.
Glenne Ferry.....	Boise.....	2,569	4	28.8	-	54	25	- 10	4	38	2.24	-	0.73	16.0	8	15	7	9	w.	I. E. Perkins.
Gooding.....	Lincoln.....	3,572	3	25.4	-	48	26	- 18												

TABLE 1.—Climatological data for January, 1912. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<i>Idaho—Continued.</i>																					
Meadows.....	Adams.....	3,850	8	26.2		48	26	-15	8	29	2.64		1.34	18.8	18	4	7	20	se.	C. A. Hackney.	
Meridian.....	Ada.....	2,657	1	26.2		48	26	-15	8	29	2.64								ne.	A. W. Garrett.	
Mesa.....	Adams.....	3,275	2	22.4		45	14†	-5	4	31									I. S. Carter.		
Middle Fork.....	Idaho.....	1,397	2	30.8		48	14†	-8	8	23	4.38		1.12	15.3	14	7	6	18		Jos. McGhee.	
Milner.....	Twin Falls.....	4,110	8	27.2		48	25	-7	8	27	2.56		0.90	24.5	11	2	14	15	w.	James K. Young.	
Moscow.....	Latah.....	2,748	19	29.8	+ 0.8	47	13†	-10	7	30	2.78	+ 0.06	0.50	7.5	17	6	6	19	se.	University of Idaho.	
Mountain Home.....	Elmore.....	3,150	6	26.0		53	26	-22	8	39	2.07		0.42	18.0	11	7	13	11	w.	Mrs. Ellen Marion.	
Murtaugh.....	Twin Falls.....	5	26.3			46	14	-12	4	33	2.44		0.80	12.9	10	6	12	13	w.	J. E. Steinour.	
Nezperce.....	Lewis.....	3,082	3	29.2		60	23	-15	7	35	2.23								s.	P. W. Mitchell.	
Oakley.....	Cassia.....	4,700	19	30.6	+ 1.3	53	25	0	4†	29	1.20	+ 0.22	0.60	8.0	4	4	23	4	se.	John Adams.	
O'Hara Bar.....	Idaho.....	1,557	2	30.0 ^b		44 ^b	31	0 ^b	4†	47	27 ^b		1.10	22.0	12					s.	J. D. Agnew.
Orofino.....	Clearwater.....	1,027	9	29.0		49	30	-12	8	28	4.33		0.60	15.0	17	1	14	16	se.	Geo. Alteneder.	
Payette.....	Canyon.....	2,159	22	24.4	-4.3	48	26	-23	8	42	3.42	+ 1.72	0.60	25.3	12	6	4	21	n.	E. F. Allen.	
Peaceful Valley.....	do.....	2,325	4																	J. W. Newton.	
Pebble.....	Bannock.....	5,277	3	25.6		47	25	-25	8	45	3.79		0.80	29.5	12	14	2	15	sw.	Mrs. Fannie Say.	
Pierson.....	Custer.....	7,000	3	14.0		40	25†	-32	8	55	2.50		0.83	30.0	5	13	1	17	s.	D. P. Clarke.	
Pine.....	Elmore.....	4,100	3																	Mrs. Jennie Potter.	
Pleasant Valley.....	Ada.....	3,000	4	25.8		49	26	-20	8	33	2.46		0.65	17.5	16	6	4	21	se.	C. E. Friedrich.	
Pocatello.....	Bannock.....	4,483	13	27.8	+ 2.7	50	25	-14	4	33	1.49	+ 0.83	0.38	10.3	12	4	7	20	se.	U. S. Weather Bureau.	
Pocatello Nursery.....	do.....	5,396	5																	P. T. Wrensted.	
Poplar.....	Bonneville.....	3	22.6			45	14†	-19	8	33	1.09		0.50	15.0	6	3	14	14	s.	C. M. Lawrence.	
Porthill.....	Bonner.....	1,665	23	22.6	-0.6	47	25	-13	8	23	1.49	-1.33	0.27	22.5	13	12	3	16		H. A. French.	
Powers Ranch.....	Boise.....	4,300	3																	Mrs. Mary French.	
Pyle Creek.....	do.....	3,100	3																	P. V. Smith.	
Rattlesnake Creek.....	Elmore.....	4,000	3																	R. M. Green.	
Ridgfield.....	Lincoln.....	2	23.2			45	25†	-18	18	38	1.76		0.38	12.0	9	8	15	8	ne.	Idaho Irrigation Co.	
Roseberry.....	Boise.....	1	18.8			40	14	-36	8	38	1.66		0.67	10.0	9	8	12	11	s.	Dr. Wallace Johnson.	
Roseworth.....	Twin Falls.....	2																		D. B. Hartwell.	
Ruby Creek.....	Boise.....	4,400	3																	O. A. Hatter.	
Rupert.....	Lincoln.....	4,204	6	25.6		46	25	-15	4	32	1.83		0.44	19.0	11	8	5	18	w.	Will Parry.	
St. Maries.....	Kootenai.....	2,263	14	28.1	-1.2	49	14	-11	7†	29	3.51	+ 0.04	0.46	14.3	14	9	3	19	sw.	J. S. Turnbull.	
Salmon.....	Lehmi.....	4,040	6	15.7		41	26	-21	4	33	1.87		1.50	10.5	4	5	23	3	nw.	B. C. d'Easum.	
Salmon River Dam.....	Twin Falls.....	6																		Mrs. Paul Schnell.	
Sandpoint.....	Bonner.....	2,086	2	23.4		46	14	-16	8	31	4.23		0.81	18.4	11	7	7	17	s.	J. H. Edgerton.	
Sheep Hill.....	Boise.....	5,000	3																	C. M. Gardner.	
Shoshone.....	Lincoln.....	3,965	4	25.2		44 ^b	26	-17 ^a	8	29	2.56		0.78	19.0	10					Zell Truman.	
Silver City.....	Owyhee.....	6,280	5																	A. D. Bradfield.	
Smith Prairie.....	Elmore.....	5,200	3																	Wm. W. Newell.	
Soldier Creek.....	Blaine.....	2	24.7d			49d	14	-5d	4†	40d	2.75		0.67	18.0	12					J. E. Minear.	
Spirit Lake.....	Kootenai.....	2	24.8			54	14	-22	8	43	6.37		1.40	20.0	14	10	0	21	ne.	M. C. Krause.	
Springfield.....	Bingham.....	4,420	3	30.4		53	16	-12	8	37	1.41		0.59	14.1	5	9	7	15	sw.	Mrs. W. A. Edwards.	
Sugar.....	Fremont.....	5	19.5			42	26	-24	3	39	0.89		0.52	11.0	3	5	10	16	sw.	Utah-Idaho Sugar Co.	
Sunnyside.....	Elmore.....	2	31.8			60	1	-16	8	53	3.10		0.80	20.0	9					Col. M. W. Wood.	
Tripod Mountain.....	Boise.....	4,300	3																	Mrs. Verna Paddock.	
Twin Falls.....	Twin Falls.....	3,325	7	26.6		48	26	-15	8	37	2.29		1.00	16.5	7	3	15	13	sw.	J. A. Waters.	
Vernon.....	Fremont.....	14	20.0	+ 0.8		46	21	-27	8	31	2.30	+ 0.40	0.50	22.5	8	5	10	16		A. M. Slattery.	
Wallace.....	Shoshone.....	2,728	4	27.0		44	21	-7	8	23	5.19		0.87	19						U. S. Weather Bureau.	
Weiser.....	Washington.....	2,114	26	26.6		48 ^a	13†	-14	8	39 ^b	2.92		0.70	23.5	11	6	5	20	w.	L. L. Jillson.	
Wendell.....	Lincoln.....	3,400	4	26.7		47	26	-13	8	32	2.16		0.59	18.0	11	13	10	8	w.	C. L. Dingler.	
<i>Washington.</i>																					
Aberdeen.....	Chehalis.....	162	20	41.6	+ 1.8	59	21	22	1	21	16.74	+ 5.68	2.13	8.0	23	1	18	12	w.	C. S. Weatherwax.	
Anacortes.....	Skagit.....	60	17	40.6		55	13	21	1	19	3.00	-0.34	0.47	3.0	19	4	13	14		Douglas Almond.	
Baker.....	do.....	200	5	36.0		52	25	16	1†	19	9.89		2.37	3.0	15	6	6	19		R. M. White.	
Bellingham.....	Whatcom.....	60	16	39.4	-0.7	60	14	10	1†	26	2.84	-0.55	0.46	2.8	13	10	3	18		Sanford B. Mayhew.	
Bellingham (near).....	do.....	107	37.0			56 ^a	14	9 ^a	1	23	4.55		0.68	2.5	19	7	7	16 ^a		U. S. Bureau Plant Industry.	
Beverly.....	Grant.....	545																			
Blaine.....	Whatcom.....	57	14	36.0	-0.1	56	14	9	8	22	5.59	-0.05	0.76	9.0	22	5	7	19	ne.	John W. Sheets.	
Blewett.....	Chelan.....	2,200	1																	John Burmeister.	
Bremerton.....	Kitsap.....	30																		U. S. Navy Yard.	
Brewster.....	Okanogan.....	1,620	1	20.6		42	30	-7	3†	22	2.80		1.55	12.1	14	11	3	17	sw.	Mrs. H. F. Bertram.	
Bumping Lake.....	Yakima.....	3,400	4																	George Landsburg.	
Cedar River.....	King.....	535	4																	I. S. Turner.	
Cheney.....	Spokane.....	2,351	12	40.3	+ 2.3	63	21	14	8	25	9.88	+ 4.91	2.25	15.0	19	4	12	15	s.	J. A. Balmer.	
Cle Elum.....	Kittitas.....	1,930	12	26.4	-2.0	47	14	-10	8	33	6.33	+ 2.07	1.40	41.0	15	8	4	19	ne.	George Gibbs.	
Clearbrook.....	Whatcom.....	140	8	32.4		56	29	12	1	23	7.69		1.39	30.0	11	4	9	18	ne.	I. B. Doolittle.	
Coifax.....	Whitman.....	2,300	22	31.8	+ 0.8	56	26	-14	8	36										W. L. Sax.	
Colville.....	Stevens.....	1,635	11	18.8	-3.1	44	29	-19	2	26	2.39	+ 0.16	0.46	8.8	12	13	3	15	sw.	Wm. Barnes.	
Concownelly.....	Okanogan.....	2,300	11	20.9	-1.1	40	30	-12	3†	28	1.60	+ 0.37	0.45	7.0	7	9	2	20		U. S. Reclamation Service.	
Cowiche.....	Yakima.....	1,874	12	27.5		50	13	-1	8	26	3.34		1.55	18.0	15	8	11	12	sw.	Otto Wolweber.	
Crescent.....	Lincoln.....	2,250	11	21.4	-4.3	43	30	-17	8	28	1.68		-0.14	0.41	5.0	7	12	5	14	N. C. Rhoads.	
Darrington.....	Snohomish.....	567	32.7			51	24	6	1	27	13.04	</									

TABLE 1.—Climatological data for January, 1912. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Washington—Contd.</i>																			
Kennewick.....	Benton.....	368	16	27.8	-3.4	59	13	-9	7	31	1.88	+0.94	0.42	10.0	10	3	19	R. E. Reed.	
Kettle Falls.....	Stevens.....	1,255	22	22.0	-	51	30	-17	2	29	2.79	-0.64	0.64	16.5	12	9	3	Harry H. Cole.	
Kiona.....	Benton.....	430	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Kosmos.....	Lewis.....	775	5	37.6	-	59	31	9	8	27	9.51	-	2.26	25.0	19	3	20	n.	
La Center.....	Clarke.....	250	14	37.9	-0.3	58	31	8	25	9.48	+3.18	1.48	8.0	16	3	16	J. A. Ulch.		
La Crosse.....	Whitman.....	1,400	2	30.0	-	52	25†	-20	7	41	2.68	-	0.85	6.0	10	9	3	Joseph Brothers.	
Lake Clealum.....	Kittitas.....	2,171	2	-	-	-	-	-	-	-	-	-	1.32	43.5	16	3	M. E. Schreck.		
Lake Kachess.....	do.....	2,235	3	27.0	-	47	25	-2	8	24	10.54	-	2.10	42.0	16	16	9	U. S. Reclamation Service.	
Lake Keechelus.....	do.....	2,479	3	-	-	-	-	-	-	-	-	-	-	1.98	80.0	19	6	Do.	
Lakeside.....	Chelan.....	1,116	20	23.5	-2.7	45	30	-2	4	18	3.01	+1.42	1.17	21.5	15	2	16	Do.	
Laurel.....	Klickitat.....	1,900	2	-	-	-	-	-	-	-	-	-	-	10.65	-	22	4	W. H. Van Meter.	
Laurier.....	Ferry.....	1,644	1	20.4	-	45	22†	-15	2	30	2.53	-	0.44	16.2	14	13	2	Mrs. Minnie E. Strout.	
Lester.....	King.....	1,614	7	33.2	-	50	31	2	1	26	3.26	-	1.60	30.0	7	8	5	Mrs. J. S. Myers.	
Lone Tree.....	Chehalis.....	14	2	42.9	-	52	21†	28	8	11	19.84	-	3.17	0	27	0	3	Augustine Smith.	
Longmires Springs.....	Pierce.....	2,800	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U. S. Engineer Corps.	
Lost Creek.....	Okanogan.....	3,125	2	-	-	-	-	-	-	-	-	-	-	1.50	-	56	10.0	P. H. Leese.	
Lucerne.....	Chelan.....	1,100	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L. F. McConahe, Jr.	
McConahe.....	Grant.....	1,072	21.0	-	-	47	30	-12	2	26	1.23	-	0.74	3.8	8	7	4	n.	
McCubbers Ranch.....	Yakima.....	2,182	2	-	-	-	-	-	-	-	-	-	-	10.60	2.20	57.0	19	Mrs. Mary McCumber.	
Moses Lake.....	Grant.....	-	-	-	-	-	-	-	-	-	-	-	-	1.70	-	0.81	9	C. C. Ward.	
Mottinger.....	Benton.....	307	11	32.2 ^c	-3.0	54 ^b	27	74	4	20 ^d	3.04	+2.03	0.68	16.0	10	8	6	G. H. Mottinger.	
Mount Pleasant.....	Clallam.....	500	37.0	-	-	52	20	18	8	15	3.30	-	0.83	6.0	11	4	7	Wm. M. Dorr.	
Moxee.....	Yakima.....	1,000	19	25.4	-4.4	54	27	-18	8	31	1.85	+0.37	0.65	12.8	9	5	12	H. B. Scudder.	
Newport.....	Stevens.....	2,400	1	22.2	-	51	30	-24	7	39	3.26	-	0.45	13.5	16	10	3	C. M. Talmadge.	
North Head.....	Pacific.....	211	9	44.6	+2.8	58	21	30	7	16	10.40	+3.72	2.35	0	20	3	6	U. S. Weather Bureau.	
Northport.....	Stevens.....	1,350	12	21.4	-	52	30	-14	6†	30	2.56	-	0.55	16.0	16	13	8	W. F. Case.	
North Yakima.....	Yakima.....	1,070	2	26.6	-	51	27	-12	8	26	1.82	-	0.59	14.4	11	7	6	Albert Bender.	
Nutland.....	Klickitat.....	2,303	8	30.3	-	57	31	-9	8	35	3.40	-	0.67	-	14	-	Ruth J. Shepard.		
Odessa.....	Lincoln.....	1,540	8	21.8	-	48	29	-18	2	37	1.85	-	0.80	8.0	7	3	5	Wm. U. Neely.	
Olga.....	San Juan.....	50	21	40.6	+1.0	57	13	27	17	17	3.85	+0.71	0.76	2.0	-	8	6	Cecil S. Willis.	
Olympia.....	Thurston.....	200	33	40.7	+2.0	58	21	17	8	22	10.95	+3.04	1.33	10.0	22	5	20	M. O. Connor.	
Oinak.....	Okanogan.....	850	2	20.0	-	45	30	-16	2	29	4.24	-	1.98	11.0	11	9	4	Saint John Umbrite.	
Oroville.....	do.....	922	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Parker.....	Yakima.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Peola.....	Garfield.....	5,000	2	-	-	-	-	-	-	-	-	-	-	3.39	-	0.60	16.9	14	
Pomeroy.....	do.....	1,500	19	32.3	-1.9	55	14	-3	8	26	3.09	+0.80	1.25	7.0	10	4	4	sw.	
Port Crescent.....	Clallam.....	259	16	39.2	+3.2	57	14	22	1	17	4.71	-0.82	0.90	3.4	21	2	11	w.	
Port Townsend.....	Jefferson.....	80	21	42.0	+3.4	55	14†	-7	16	1.20	-1.19	0.51	T.	7	5	19	se.		
Pullman.....	Whitman.....	2,250	19	29.8	+0.2	50	14	-13	8	30	1.97	-0.69	0.40	7.2	12	3	8	F. Plummer.	
Quets River.....	Chehalis.....	16	42.4	-	-	54	21†	-27	1	15	17.22	-	2.56	0.1	27	6	4	State Agricultural College.	
Quinault.....	do.....	300	4	41.8	-	68	31	-24	1	30	21.36	-	2.45	5.0	22	6	9	C. A. Bullard.	
Republic.....	Ferry.....	2,628	11	18.6	-	46	30	-21	2	27	1.74	-	0.77	15.5	10	12	1	A. V. Higley.	
Rex Creek.....	Chelan.....	1,135	4	17.2	-	45 ^a	23	3	1	21 ^b	5.42	-	1.40	35.0	7	2	5	Geo. B. Stocking.	
Ritzville.....	Adams.....	1,825	12	-	-	-	-	-	-	-	-	-	-	-	-	-	R. R. Conger.		
Robertsburg.....	Klickitat.....	-	-	28.5	-	47	13†	-5	8	29	8.38	-	1.87	52.0	13	4	22	P. M. Ramsey.	
Rock Lake.....	Whitman.....	1,910	5	24.8	-	49	29	-19	8	35	2.49	-	1.03	6.5	9	18	7	Hans Mummu.	
Rosalia.....	do.....	2,425	19	-0.3	51	14	-7	4	27	2.50	+0.38	0.78	7.9	7	11	3	sw.		
Russell Ranch.....	Yakima.....	2,870	2	-	-	-	-	-	-	-	-	-	-	-	-	-	U. S. Weather Bureau.		
Seattle.....	King.....	123	20	42.6	+3.3	57	21	24	8	19	4.52	0.00	1.05	4.1	17	4	7	Mrs. H. L. Devin.	
Sedro-Woolley.....	Skagit.....	38	14	39.4	+1.1	59	22	13	1	27	4.48	0.00	0.85	4.60	17	11	3	sw.	
Sixprong.....	Klickitat.....	1,240	4	29.1	-	55	29	-9	8	31	2.10	-	0.47	12.0	14	2	27	C. E. Comstock.	
Skagit Power Dam.....	Whatcom.....	510	1	-	-	-	-	-	-	-	-	-	-	-	-	-	A. M. Richardson.		
Snohomish.....	Snohomish.....	100	17	39.8	+1.2	57	28	18	5	19	2.31	-	0.55	-	11	14	5	O. N. Wiswell.	
Snoqualmie Falls.....	King.....	667	12	39.3	-	55	21	-7	7	16	6.39	-1.79	0.78	96.0	21	17	0	C. E. Ingraham.	
Snoqualmie Pass.....	do.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Geo. M. Snyder.		
Snyders Ranch.....	Okanogan.....	2,200	2	17.8	-	43	14†	-18	2	39	3.66	-	0.55	-	11	14	5	Mrs. Winifred Buckingham.	
South Bend.....	Pacific.....	16	43.0	+0.9	58	21†	-25	1†	19	18.23	+6.10	2.55	0	0.88	40.0	8	12	11	U. S. Weather Bureau.
Spokane.....	Spokane.....	1,943	30	26.6	-0.1	58	29	-12	8	23	2.31	+0.01	0.86	6.6	14	3	7	University of Washington.	
State University.....	King.....	170	2	41.2	-	55	21	-25	8	16	4.60	-	0.86	5.2	18	6	8	Charles W. Gunn.	
Stokes Ranch.....	Okanogan.....	2,670	2	20.2	-	57	21	-10	8	34	3.32	-	0.91	34.8	10	11	9	H. E. Thompson.	
Summer.....	Pierce.....	77	3	40.2	-	61 ^a	22†	-12	7†	31 ^b	7.12	-	1.70	3.00	20	5	6	U. S. Reclamation Service.	
Sunnyside.....	Yakima.....	740	16	26.8	-3.6	54	27†	-16	8	33	1.81	+0.88	0.53	13.3	13	3	12	Tacoma.....	
Tacoma.....	Pierce.....	213	25	41.7	+3.6	57	14	-21	8	20	7.12	+1.34	1.61	12.7	20	4	7	U. S. Weather Bureau.	
Tatoosh Island.....	Clallam.....	86	26	43.5	+2.3	55	21	31	8	11	12.34	+0.18	1.60	3.9	23	4	23	U. S. Forest Service.	
Tieton.....	Yakima.....	2,000	2	26.4	-	48	13	-5	7	33	5.12	-	1.25	24.9	18	5	7	J. A. Williams.	
Tonasket.....	Okanogan.....	945	-	-	-	59	29	-10	8	34	2.41	-	0.85	17.4	10	7	6	U. S. Reclamation Service.	
Touchet.....	Walla Walla.....	556	4	29.5	-	-	-	-	-	-	-	-	-	8.5	12	3	5	D. W. Dorrance.	
Touchet Ridge.....	Columbia.....	2,500	2	-	-	59	29	-10	8	34	2.41	-	0.64	-	31.0	12	8	15	sw.
Trinidad.....	Douglas.....	900	7	24.2	-	49	27	-8	8	33	2.84	-	2.25	5.0	5	9	17	R. H. King.	
Vancouver.....	Clarke.....	100	36	40.4	+2.7	61	31	13	8	26	7.98	+2.25	2.01	10.0	19	6	4	J. C. Wheeler.	
Vashon Island.....	King.....	40	22	41.2	+2.7	54	14†	-24	8	16	6.80	+1.12	1.13	3.5	23	7	2	22	A. A. Quarberg.
Wahluke.....	Grant.....	410	7	25.6	-	50 ^a	14	-9	8	26 ^b	2.02	-	0.50	8.0	7	5	3	Gertrude McClintock.	
Wallace.....	Okanogan.....	4,000	2	-	-	-	-	-	-	-	-	-	-	-	-	-	F. G. A. Koppen.		
Walla Walla.....																			

TABLE 1.—Climatological data for January, 1912. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.			Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.		
Oregon—Continued.																			
Brogan.	Malheur.	2,600	1	25.6	.....	47	26	- 6	8	22	1.83	.....	0.90	13.0	14	9	15	w.	
Burns.	Harney.	4,157	21	25.2	.....	47	31	- 21	2	36	1.94	.....	0.39	8.0	30	1	4	26	
Cascade Locks.	Hood River.	100	22	33.5	- 2.9	50	13†	7	8	26	20.11	+ 8.14	4.18	49.0	20	2	24	e.	
Cazadero.	Clackamas.	503	3	42.2	.....	63	21†	19	8	23	9.86	.....	2.11	1.3	13	4	10	17	
Cliff.	Lake.	4,300	5	29.6	.....	48	14†	- 20	3	55	1.34	.....	0.36	5.0	19	8	20	sw.	
Condon.	Gilliam.	2,884	5	30.0	.....	50	14†	- 3	8	28	2.88	.....	0.61	20.0	23	1	8	22	
Corvallis.	Benton.	266	24	42.2	+ 3.1	51*	31†	1†	20*	8.71	.....	+ 1.87	1.50	0	10	3	26	sw.	
Crescent.	Klamath.	4,400	28.6	47	22	- 21	3	51	3	3.92	.....	1.02	16.8	8	7	5	18	sw.	
Dayville.	Grant.	2,200	18	34.4	- 0.7	56	29	- 18	8	52	1.90	+ 0.49	1.40	14.0	10	6	5	20	se.
Deadwood.	Lane.	350	2	44.8	.....	58	13†	28	2†	21	22.09	.....	5.27	0	24	4	7	20	
Doraville.	Columbia.	600	10	39.4	+ 3.2	56	31	14	8	20	11.15	+ 3.84	1.52	15.2	22	3	4	24	
Drain.	Douglas.	300	10	45.6	.....	61	13†	25	2†	34	10.44	.....	2.49	0	26	6	24	sw.	
Echo.	Umatilla.	625	8	29.1	.....	54†	27†	- 11 ^b	8	23 ^b	2.49	.....	0.86	13.0	10	2 ^b	5 ^b	w.	
Ella.	Morrow.	830	8	33.1	.....	53	29	- 10	8	37	2.38	+ 1.08	0.49	13.0	13	9	5	17	
Eugene.	Lane.	449	22	43.8	+ 3.9	60	13†	23	3	24	6.47	+ 1.29	1.34	0	22	4	7	20	s.
Fairview.	Coos.	142	16	46.0	+ 1.6	65	12	21	3	27	15.43	+ 4.89	3.80	0	18	5	0	26	sw.
Falls City.	Polk.	355	15	47.8	.....	51	21	14	8	27	15.43	.....	Chas. F. Vick.	Pacific University.					
Forest Grove.	Washington.	220	23	40.3	+ 3.2	59	31	16	8	25	11.86	+ 4.08	1.68	5.0	15	2	3	26	n.
Glendale.	Douglas.	1,441	8	45.8	.....	61	21	23	4	20	8.30	.....	2.10	0	8	11	4	23	
Glenora.	Tillamook.	575	21	38.3	+ 1.2	51	21†	20	1	17	32.45	+ 13.11	5.60	10.0	19	6	6	24	sw.
Gold Beach.	Curry.	40	11	45.0	+ 2.3	62	23	33	4	15	.....	.....	J. W. Riley.	John B. Paddock.					
Grants Pass.	Josephine.	956	24	43.1	+ 4.4	59	22	23	4	26	6.64	+ 0.36	1.90	0	18	0	4	27	sw.
Grass Valley.	Sherman.	2,381	11	47.8	.....	54	21	14	8	27	15.43	+ 3.11	3.00	33.0	8	3	13	sw.	
Gurdane.	Umatilla.	3,500	37.4	64	29	- 11	7	49	1.08	.....	0.60	.....	6	7	18	9	1	sw.	
Headworks.	Clackamas.	719	10	35.6	.....	50	31	22	3†	15	15.30	+ 5.37	2.54	1.8	23	4	8	19	
Heppner.	Morrow.	1,950	22	35.0	+ 2.1	60	13	0	8	37	2.35	+ 0.81	0.87	13.0	10	4	18	9	
Hermiston.	Umatilla.	451	5	.....	.....	.....	.....	- 21	8	.....	2.04	.....	0.54	11.7	11	4	15	12	
Hermoso Rio.	Crook.	2,300	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hood River.	Hood River.	300	22	30.8	.....	51	13	- 3	8	30	7.30	+ 1.29	1.40	36.0	13	0	0	31	e.
Huntington.	Baker.	2,165	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jacksonville.	Jackson.	1,640	24	39.8	+ 2.3	58	20	20	4	22	4.87	+ 0.52	1.26	1.8	14	3	4	24	.....
Joseph.	Wallowa.	4,400	25	28.8	+ 2.3	46	25	- 12	8	32	2.06	+ 0.33	0.50	9.0	11	9	3	19	s.
Klamath Agency.	Klamath.	4,169	4	28.6	.....	39	31	- 22	3	34	8.30	.....	3.00	14.0	6	5	6	20	s.
Klamath Falls.	do.	4,100	23	28.9	- 1.4	48	22	- 14	3†	33	2.23	- 0.36	1.00	T.	5	7	10	14	nw.
La Grande.	Union.	2,784	24	31.9	+ 2.2	50	14	- 3	8	27	4.23	+ 2.27	1.08	44.2	14	8	9	14	nw.
Lakeview.	Lake.	4,825	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McKenzie Bridge.	Lane.	1,400	11	33.8	- 1.6	58	31	5	3	33	17.12	+ 7.93	3.88	0	26	4	0	27	sw.
McMinnville.	Yamhill.	182	25	42.3	+ 3.8	62	13	21	8	23	11.33	+ 4.11	2.53	2.2	20	8	0	23	s.
Marshfield.	Coos.	34	11	47.1	.....	67	21	22	3	33	12.32	.....	2.35	0	23	.....	.....	.....
Medford.	Jackson.	1,425	1	41.8	.....	62	22	20	4	28	3.59	.....	0.96	1.0	15	7	8	16	nw.
Merrill.	Klamath.	4,070	6	31.8	.....	55	31	- 19	4 ^a	45 ^a	0.70	.....	0.38	4.9	4	9	14	8	
Metolius.	Crook.	3,600	1	33.8	.....	57	28	- 8	8	34	2.45	.....	1.03	20.0	9	3	5	23	
Mikkalo.	Gilliam.	1,400	6	29.1	.....	53	29	- 7	8	46	3.58	.....	1.50	14.0	9	3	5	23	
Miramonte Farm.	Clackamas.	195	24	40.0	+ 1.5	56 ^a	13†	17 ^a	8	23 ^a	9.78	+ 3.69	2.30	2.0	22	6	2	23	sw.
Monroe.	Benton.	350	15	42.8	+ 3.0	58	14†	22	8	23	11.43	+ 4.06	2.00	0	19	2	1	28	sw.
Mount Angel.	Marion.	485	26	41.6	+ 2.2	60	24	19	8	22	9.14	+ 2.32	2.25	2.0	21	4	3	24	s.
Mount Hood.	Hood River.	1,650	22	32.6	.....	53	13	- 3	8	36	9.31	.....	2.16	67.5	16	3	6	22	w.
Music.	Douglas.	5,000	3	35.2	.....	52	21†	15	2	17	12.57	.....	3.05	32.5	22	6	5	20	s.
Newport.	Lincoln.	69	25	46.4	+ 2.1	60	31	27	1	19	13.60	+ 3.63	2.70	0	22	4	5	22	se.
Ortley.	Wasco.	1,600	1	27.0	.....	48	13†	- 6	9	42	12.80	.....	3.50	73.0	14	7	1	23	e.
Paisley.	Lake.	4,500	9	37.0	.....	57	14	5	3	35	0.74	.....	0.64	1.0	2	14	6	11	w.
Pendleton.	Umatilla.	1,070	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pilot Rock.	do.	1,817	4	33.2	.....	62	14†	- 10	8	31	2.34	.....	0.60	12.8	11	6	2	23	sw.
Pompeii.	Clackamas.	3,879	17	32.4	+ 2.5	50	14	9	8	20	22.20	+ 11.74	4.00	77.0	16	7	5	19	sw.
Portland.	Multnomah.	57	42	41.4	+ 2.3	58	12	20	8	18	0.81	+ 1.51	2.17	7.9	22	4	3	24	e.
Port Orford.	Curry.	80	7	47.1	.....	61	24	26	2†	26	16.41	.....	4.35	0	19	6	5	20	s.
Prairie City.	Grant.	3,425	16	34.9	.....	54 ^a	31	- 14 ^a	8	45 ^a	4.07	.....	1.30	31.5	17	3 ^a	9 ^a	16	nw.
Prineville.	Crook.	2,864	16	31.0	- 2.2	54	13†	- 16	7	53	2.56	+ 1.65	0.98	14.5	10	6	10	15	se.
Prospect.	Jackson.	2,500	6	30.0	.....	65	31	6	2†	37	10.78	.....	1.93	7.0	20	4	12	15	nw.
Ramsey.	Wasco.	1,350	11	28.0	.....	52	13	- 8	8	38	3.67	.....	2.18	59.3	14	5	3	23	w.
Range.	Grant.	3,500	4	27.6	.....	50	19†	- 14	8	34	5.00	.....	1.00	21.0	14	8	10	13	.....
Redmond.	Crook.	1	32.4	.....	54	14†	- 11	8	42	2.44	.....	1.00	12.0	7	4	3	23	w.	
Richland.	Baker.	2,350	11	25.6	- 0.5	47	26	- 22	8	30	2.44	.....	0.05	23	6.5	12	6	5	20
Riverside.	Malheur.	3,000	13	26.8	- 1.3	48	17†	- 21	3†	44	1.24	.....	- 0.05	2.68	5.25	0	21	3	15
Roseburg.	Douglas.	510	22	45.4	+ 4.6	63	20	22	3	56	2.96	+ 0.26	1.55	- 0.14	1.02	0	22	2	1
Salem.	Marion.	120	22	42.2	+ 1.9	56	13†	22	8	14	5.52	.....	0.57	0.5	7	7	17	sw.	
Silver Lake.	Lake.	4,700	15	30.0	+ 1.9	50	22	- 18	3	51	0.92	- 0.16	0.57	0.5	7	7	17	sw.	
Siskiyou.	Jackson.	4,115	4	35.6	.....	53	31	13	3	20	5.48	.....	2.02	13.0	12	4	5	22	s.
Sparta.	Baker.	4,150	21	26.2	+ 0.9	48	14	- 7	8	27	5.74	+ 2.77	1.80	56.0	12	8	13	10	ne.
Stafford.	Clackamas.	400	16	41.9 ^b	+ 3.4	58													

TABLE 2.—*Daily precipitation for January, 1912. District No. 12, Columbia Valley.*

TABLE 2.—*Daily precipitation for January, 1912. District No. 12—Continued.*

TABLE 2.—*Daily precipitation for January, 1912. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
<i>Washington—Con.</i>																																	
Lester.....	Puget Sound	.02	.16	.34	1.60	1.20	.32	.78	.19	.40	2.54	1.55	.59	.09	.04																		3.26
Lone Tree.....	Coast.....																																19.84
Longmires Springs.....	Puget Sound																																1.50
Lost Creek.....	Columbia.....																																1.23
Lucerne.....	do.....																																1.23
McConchie.....	do.....																																10.60
McCumber's Ranch.....	do.....																																1.70
Moses Lake.....	do.....																																3.04
Mottinger.....	do.....																																3.04
Mount Pleasant.....	Coast.....																																3.30
Moxxee.....	Yakima.....	T.	T.	T.	.04	.65	.19	.10	.09	.33	.33	.08																				1.85	
Newport.....	Pend Oreille	T.	T.	.04	T.	.35	.26	32.1	.27	.41	.25	10.1	.09	.10	.90																	3.26	
North Head.....	Coast.....																															10.40	
Northport.....	Columbia.....	T.	T.	.16	.02	.02	.10	.02	T.	.50	.01	.55																			2.56		
North Yakima.....	Yakima.....	T.	T.	.02	.59	.07	.03	.01	T.	.34	.03																				1.82		
Nutland.....	Columbia.....																															3.40	
Odessa.....	do.....	T.	T.	T.	.40	.20	T.	.20		T.	T.	T.																			1.85		
Olga.....	Puget Sound																															3.85	
Olympia.....	do.....																															10.95	
Onusak.....	Okanogan.....																															4.24	
Oroville.....	Snake.....																																
Peola.....	Yakima.....																																
Pomeroy.....	Snake.....																																3.39
Port Crescent.....	do.....																															3.09	
Port Townsend.....	Coast.....	.01	.01	.20	.01	.29	.34	.13	.31	.10	.55	.09	.04																		4.71		
Fullman.....	Palouse.....	.15	.02	.40	.10	.05	.04	.05	.07	T.	.08	T.																			1.20		
Quetae River.....	Coast.....	.05	.13	.38	.35	.07	.04	.11	.69	.21	.46	1.79	1.57	1.05	.18	T.															1.97		
Quinault.....	do.....																															21.36	
Republic.....	Kettle.....																															1.74	
Rex Creek.....	Columbia.....	T.	T.	.10																												5.42	
Ritzville.....	do.....																															2.66	
Robertsville.....	do.....																															8.38	
Rock Lake.....	Palouse.....	T.	T.	.40																												2.49	
Rosalia.....	do.....																															2.50	
Russells Ranch.....	Yakima.....																																
Seattle.....	Puget Sound																															4.52	
Sedro-Woolley.....	do.....																															4.48	
Sixprong.....	Columbia.....	.02	T.	.21	.47	.36	.10	.08																							2.10		
Skagit Power Dam.....	Puget Sound																																2.31
Snohomish.....	do.....																																6.39
Snoqualmie Falls.....	do.....																																3.66
Snyders Ranch.....	Columbia.....	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	18.23			
South Bend.....	Coast.....																																
Spokane.....	Spokane.....	.01	T.	T.	.27	.08	T.	.03	.09	T.	.19	.51	.20	.50	.02	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	2.31		
State University.....	Puget Sound																																4.60
Stokes Ranch.....	Columbia.....																																3.32
Summer.....	Puget Sound																																7.12
Sunnyside.....	Yakima.....	T.	T.	.12	.58	.17	.06	.02																							1.81		
Tacoma.....	Puget Sound																																7.12
Tatoosh Island.....	Coast.....																																
Tieton.....	Yakima.....																																5.12
Tonasket.....	Okanogan.....																																
Touchet.....	Columbia.....	T.	T.	.26	.34	.16	.03																									2.41	
Touchet Ridge.....	do.....																																8.70
Trinidad.....	do.....																															2.84	
Vancouver.....	Coast.....																																7.98
Vashon Island.....	Puget Sound	.02	T.	.02	.23	.24	.33	.30	.01	.03	.01	.02	.51	.13	.50	.02	T.	6.80															
Wahluke.....	Columbia.....																															1.50	
Wallace.....	Okanogan.....	T.	T.	.20	.20	.15	.03	T.	.10	.05	.27	.02	.21	.14																2.02			
Walla Walla.....	Columbia.....	T.	T.	.20	.20	.15	.03	T.	.10	.05	.27	.02	.20	.15																2.90			
Washougal.....	do.....																															9.44	
Waterville.....	do.....																															2.50	
Wenatchee (near).....	do.....																															2.87	
White Salmon.....	John Day.....	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	10.58			
Wilbur.....	Black Butte.....	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	1.40			
Wind River.....	do.....																															19.80	
Wintrop.....	do.....																															3.32	
Yale.....	do.....																															19.29	
Zillah.....	Yakima.....																																1.96
<i>Oregon.</i>																																	
Albany.....	Willamette.....	.14																															9.29
Allingham.....	Deschutes.....																																

TABLE 2.—*Daily precipitation for January, 1912. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Oregon—Continued.																																		
Christmas Lake.....	SE. Drainage	.1813	.12	.13	.07	T.	.05	T.	T.	T.	T.	.05	.06	.03	.01	T.	.03	.27	.12	T.	1.31	
Cliff.....	do	.0206	.16	.10	.06	.04	.0507	.0502	.0405	.06	.0305	.36	.05	.03	1.34	
Columbia Mine.....	Snake70	.90	.50	.20	.60	.10	1.20	6.60		
Condon.....	John Day38	.61	.61	.08	T.	.27	.0515	2.88		
Coquille River Lighthouse.....	Coast	.42	30	1.30	.75	.....	.55	.....	.85	.35	.....	.06	.....	.43	.....	.10	.....	.18	.....	.07	1.33	.....	.26	.70	.10	.....	.25	.60	.20	.....	9.40
Cornucopia.....	Snake	.0137	.61	.17	.15	.59	.11	2.25	1.22	.13	.10	.29	.06	1.39	.63	1.40	.06	.21	9.78		
Corvallis.....	Willamette	.90	.24	1.50	0	.86	.21	.....	1.17	.08	.04	.05	T.	T.	.23	.....	.27	.02	.....	.02	.33	.75	.26	.22	.36	.....	.50	.13	.....	.....	8.71
Cracker Creek.....	Snake60	.90	1.204006	.02	0	T.	T.60	5.27		
Crescent.....	Deschutes	.13	.24	2.24	.....	.61	.17	.11	.05	.83	.13	.....	.01	.11	T.	.06	.05	T.	.....	T.	.03	1.02	.07	T.	.....	.02	T.	.....	.....	3.92	
Dayville.....	John Day	.....	.....	.....	.32	.30	2.24	.92	.77	1.0	.....	.10	.95	3.27	2.01	.....	T.	.12	.05	T.	T.	T.	T.	.10	.....	.....	.....	.....	.....	1.90	
Deadwood.....	Coast	T.12	.09	T.	T.	.10	T.	T.	T.05	.16	.05	.02	.01	2.88		
Diamond.....	SE. Drainage	T.12	0.58		
Doraville.....	Columbia	.04	.02	.26	1.26	.93	.41	.82	.11	2.22	1.82	.83	T.	T.	.26	.02	T.	T.	T.	T.	.10	11.15	
Drain.....	Umpqua	.04	.....	.....	.11	.42	1.29	.00	.34	.40	.....	.30	.40	.41	.01	.02	.....	.09	.16	.....	.....	.10	1.00	1.17	.31	1.18	.05	.08	.....	.....	10.44
Dufur.....	Columbia	.....	.....	.....	.01	1.0	.66	.93	.16	.10	.....	.08	.20	.00	.14	.....	.....	.....	.....	.....	.....	.02	0	.12	.06	.23	T.	.....	.....	.....	4.63
Duncan.....	Umatilla	.....	.....	.....	.10	1.25	.....	.20	.10	.....	.30	.....	.50	.20	.10	.....	.....	.....	.....	.....	.....	.09	.....	.....	.....	.....	.....	.....	.....	.....	6.05
Echo.....	do	.....	.....	.....	.33	.80	.....	.....	.....	.....	.....	.29	.04	.....	.29	.....	.....	.....	.....	.....	.....	.09	.....	.....	.....	.....	.....	.....	.....	.....	2.49
Ella.....	Columbia	.....	.....	.....	.27	.49	.36	.08	.....	.....	.09	.....	.13	.50	.....	T.	.02	.09	.....	T.	.....	T.	.20	.03	.15	.....	.....	.....	.....	.....	2.38
Embody.....	SE. drainage	.....	.....	.....	.20	.09	.19	.12	.40	.13	.....	.50	.....	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.28
Eugene.....	Willamette	.10	.61	.42	.....	.28	.51	.....	.18	.24	1.0	.....	.02	.21	.....	.04	.08	.....	.03	.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.47	
Fairview.....	Coast	.....	.....	.....	.30	2.00	T.	1.51	.32	T.	.26	.30	.08	.....	.50	.31	.25	.....	.38	.30	1.02	1.30	.31	.....	T.	.41	.76	.....	.....	15.43	
Falls City.....	Willamette	11.71		
Fir Glen.....	Coast	01	T.	.....	.39	1.71	.60	.39	.28	.43	2.52	.36	T.	.....	.13	.....	.06	.07	.03	T.	.03	.04	1.45	.75	.54	.09	.02	.10	.33	.....	11.71
Florence.....	do	.02	3.2	3.00	.53	.64	.50	.....	1.03	2.16	.98	.....	.21	.18	.41	.14	.26	.....	.09	1.0	.25	.37	.51	.76	.06	.61	.34	.....	16.37		
Forest Grove.....	Willamette	.....	.....	.....	* *	* *	* *	* *	* *	* *	.....	.04	.....	.10	.70	.....	T.	.....	.....	.....	.....	.10	1.08	.60	.50	.32	.78	.17	.12	.....	11.86
Fort Rock.....	SE. drainage	.05	10	.15	.06	.05	.05	.06	.....	.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.18
Galice.....	Rogue	.20	.....	.....	T.	.54	.14	.21	.51	.31	.30	.20	.00	.38	.....	.04	.34	.18	.02	.....	.26	.04	2.48	.53	.86	.04	.....	.....	.....	.....	12.48
Gardiner.....	Umpqua	.....	.....	.....	.30	1.60	1.05	.55	.80	.13	.....	.00	.24	.55	.....	.43	.....	.....	.....	.....	.....	.28	.12	.25	.30	.68	.64	.06	.62	.45	15.44
Glencoe.....	Columbia	.....	.....	.....	* *	* *	* *	* *	* *	* *	.....	.04	.....	.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.83
Gibbon.....	Umatilla	.....	.....	.....	.40	.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.50	.....	.....	.....	.....	.....	.....	.....	5.99
Glendale.....	Umpqua	.....	.....	.....	T.	T.	.30	.20	.16	.20	.80	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8.30	
Glenora.....	Coast	10	2.70	2.00	.....	1.30	2.70	0.0	40	5.00	6.00	3.00	.....	.....	.....	.....	.....	.....	.....	1.50	.....	.07	2.0	.96	1.30	1.39	2.10	2.15	1.11	.37	32.45
Golden Falls.....	do	.02	.93	2.88	1.47	.63	.90	.....	.44	1.98	1.51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20.15	
Grants Pass.....	Rogue	.09	.....	.....	.23	.13	.13	.13	.43	.70	0.07	.14	.10	.....	T.	.....	.01	.08	.07	T.	.....	.02	.72	.10	.57	T.	.....	.01	.01	6.64	
Grass Valley.....	Greenhorn	.....	.....	.....	.42	.73	.73	.19	.52	.02	T.	.81	.61	.....	.01	.15	.....	T.	.....	T.	.....	.55	.81	.77	.09	.30	.04	.....	.....	4.45	
Gumboot.....	do	.....	.....	.....	.05	.....	.20	.....	.20	.05	.....	.00	.....	.05	.....	.....	.....	.....	.....	.....	.....	.05	.....	.....	.....	.....	.....	.....	.....	.....	3.73
Gurdane.....	Columbia	.....	.....	.....	.03	.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.08	
Happy Home.....	Umpqua	.08	.....	.....	1.74	1.62	1.34	1.40	.94	.84	9.4	5.10	.75	.....	.....	.....	.....	.....	.....	.....	.....	.25	1.15	2.10	.20	1.10	.....	.....	25.68		
Hay Creek.....	Deschutes	.....	.....	.....	.13	.85	.60	.02	.09	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.07	.....	.14	.20	1.20	1.19	1.18	2.46		
Hazeldell.....	Willamette	.....	.....	.....	.60	.21	.79	.....	.49	T.	.09	1.35	.92	T.	.....	.21	.09	.12	1.04	.61	.12	.13	1.15	.05	.....	.....	.....	.....	.....	7.25	
Headworks.....	do	.....	.....	.....	.18	1.53	2.54	1.12	1.00	1.15	.15	.50	2.15	.93	.10	.....	.....	.....	.....	.....	.....	.36	1.26	.33	1.20	1.15	.06	15.30			
Heppner.....	Columbia	.....	.....	.....	.27	.87	.....	.05	.04	.....	.....	.36	.09	.....	.....	.....	.....	.....	.....	.....	.....	.10	.....	.....	.....	.....	.....	.....	.....	2.35	
Hermiston.....	Umatilla	.....	.....	.....	.30	.54	.22	.....	T.	.....	.....	.12	.02	.....	.....	.....	.....	.....	.....	.....	.....	.31	.08	.05	.06	.....	.....	.....	.....	2.04	
Hermoso Rio.....	Deschutes	.....	.....	.....	.35	.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.35	
Hilgard.....	Gr'de Ronde	.....	.....	.....	.30	1.60	1.40	1.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.10	.....	.....	.....	.....	.....	.....	.....	3.35	
Hood River.....	Columbia	.30	.....	.....	1.32	2.64	1.94	3.1	1.82	.48	3.4	2.92	1.20	.08	.....	.33	.02	.15	.....	.08	.02	.52	1.55	.44	.84	1.00	.04	.70	18.79		

TABLE 2.—*Daily precipitation for January, 1912. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																													Total.												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31											
<i>Oregon—Continued.</i>																																											
Riverdale.....	Deschutes.....	.01		.04	.04	.30	T.	.11		.43	T.	T.		.02	.08	.14							T.	.06	.39							.14	1.76										
Riverside.....	Malheur.....			.15	.08	.15	.05	.05	.05	.05	.10	.08		.10	.05		T.								.28	T.								.10	1.24								
Rock Creek.....	Willamette.....		.12	.23	.23	.33		.85	.84	3	.74	.15		.12	.10		.48	.53								.10	.96	.59							1.36	.21	15.06						
Roseburg.....	Umpqua.....	.01	.11	.02	.58	.09	.24	.07	.29	.39	.16	.12		T.	.14		.11	.15	T.							.03	T.	.11	.98	.13	.02				.15	.06	5.96						
Rosland.....	Deschutes.....		.83	.61	.74	.58	.12	.14	.33	.65	.10						.12	.12	.10		.35	.15	.04	.20										T.		6.18							
Salem.....	Willamette.....	.06		.18	.49	1.02	.17	.29	.43	.04	.30	.52	.07				.03	.12	.31	T.	.12	.50	.26	.17	.14	.09	.23		.07		5.52												
Seneca.....	SE. drainage.....	.01		.08	.42	.71	.06		.06	.10	.24	.12			.02										.25	.30									2.37								
Silver Lake.....	do.....					.12	.04		.02			.03																								.10	0.92						
Siskiyou.....	Rogue.....	.53				.04	.35	.27	.37	.26		.82	.12			.10																				5.48							
Sisters.....	Deschutes.....		.20	.80	.78	.04	.46				.68	.10																								.06	.03	4.09					
Sparta.....	Snake.....		.40	.60	.80	.40	.30	.20	.10		.80			.10																							5.74						
Stafford.....	Willamette.....		.30	.74	1.79	.20	.75	.05	.08	.35	1.41	.71	.02	.01	.02																				2.89								
Starkey.....	Gnd. Ronde.....			.75	.20	.30					.40	.20																															
Summit.....	Willamette.....	.52	.62	2.20	.60	.42	1.53	.18	.55	2.51	.62	.04	.09		.06	.25	.17	.02	T.	.08	.96	.20	.68	1.06	.60	.68	.23										14.76						
Summit Prairie.....	Deschutes.....	T.		.12	.58	.22	.30																																2.28				
Susanville.....	John Day.....	.01		.40	.30	1.10		.10																														4.82					
Tamarack.....	do.....		.27	.67	.66	.02		.02			.66	.08																									3.67						
Telocaset.....	Snake.....		.40	.81		.20		.05	.35	.05	.02																										2.23						
The Dalles.....	Columbia.....		.26	1.66	1.67	.13	.38	.18			.90	.20																								6.30							
Tinroof.....	Umatilla.....																																										
Toledo.....	Coast.....		.40	2.10	1.20	.50	.80	.20		.20	2.05	.45																									15.10						
Trail.....	Rogue.....	.02	.02		.02	.40	.41	.15	.27	.51	1.61	.38	.44	T.	T.	.01	T.	.02	.03																	6.35							
Trask.....	Coast.....		.20		.28	2.30		2.11	2.01	.80	2.03	2.42	2.14	1.81	2.23	.19																				26.93							
Umatilla.....	Columbia.....	T.	.23			.80		.07	T.																														1.78				
Union.....	Gnd. Ronde.....		.04	.30	.26			.05		.50	.44		.17																								2.23						
Vale.....	Malheur.....	T.		.35	.32		.02	.13	.11	.33	.19			.11																						2.09							
Valley Falls.....	SE. drainage.....				.17	T.	T.			.02				T.																								0.50					
Vida.....	Willamette.....	.06		1.03	1.08	1.04	.33	1.00	.25	.45	3.92	.80			.66			.04	.07	.16														14.50									
Wallace Orchard.....	do.....	T.		.70	1.45	.20	.80	.09	.38	.50	.28																									7.18							
Walloupa.....	Gnd. Ronde.....			.27	.27	.12	T.	.40	.27		.77	.76	.07		.10																					5.44							
Wallowa.....	do.....			.20	.32	.12	.02	.38	.02		.73	.15	.02	.04	.10																				2.74								
Warmie.....	Deschutes.....	.51			.38	1.10	2.04	.27			.74	.44																								6.84							
Warmspring.....	do.....		.15		.13	.99	.15			.10	.29																										3.68						
Wasco.....	Columbia.....		.35	1.35	.56	.15	.15			.59	.08																									4.00							
Welches.....	do.....		.50	1.23	1.96	1.68	.03	1.59	.61	.59	4.86	1.49			.39																			18.75									
Westfall.....	Malheur.....				.31	T.	.65		.05	T.		T.	.15	.10																													
Weston.....	Walla Walla.....					.30	.20	.15	.45	.78	.03	1.60	.25	.02																						4.87							
Williams.....	Rogue.....	.01					.20	.40	.15	.50	.30	.66	.30	.10																						6.68							
Yonna.....	Int. drainage.....	.15																																					3.72				

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for February, 1912. District No. 12, Columbia Valley.

Date.	Montana.								Idaho.																			
	Kalispell.		Missoula.		Afton, Wyo.		Boise.		Bonners Ferry.		Hot Spring.		Lewiston.		Mackay.		Meadows.		Pocatello.		Salmon.		Shoshone.		Vernon.		Wallace.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	12	-2	22	9	20	7	28	22	18	-6	32	13	30	20	23	-9	.....	.....	21	12	16	-5	28	0	13	0	22	16
2....	14	-3	18	9	25	6	27	6	21	-4	29	11	25	12	20	-6	.....	.....	22	15	15	-6	13	0	18	8	16	8
3....	13	1	23	-6	17	-4	20	3	21	1	22	6	18	4	10	-10	.....	.....	20	-1	8	-13	18	0	12	2	20	4
4....	13	-4	22	-7	6	-22	22	1	18	6	28	0	20	2	14	-15	.....	.....	16	-14	-4	-21	20	-8	12	-16	19	2
5....	11	-8	23	10	22	-12	20	8	21	10	26	13	25	19	32	-9	.....	.....	28	-5	10	-9	24	4	15	-10	23	16
6....	8	-11	24	6	36	20	30	12	23	-2	35	9	24	20	26	12	.....	.....	29	22	20	0	29	7	15	10	20	12
7....	5	-10	15	2	23	-11	27	-3	17	-10	32	16	22	-3	28	4	.....	.....	33	5	18	10	29	12	17	0	10	-
8....	4	-15	12	-10	11	-26	13	-5	12	-9	20	-7	29	-6	25	-5	.....	.....	23	-3	15	-18	12	-17	4	-27	11	-7
9....	15	4	28	5	36	-10	35	8	15	-2	30	16	42	27	21	0	.....	.....	43	11	14	2	34	12	19	0	32	10
10....	10	5	39	24	35	23	37	23	20	10	43	18	42	34	33	6	.....	.....	37	30	39	6	34	19	26	14	34	29
11....	10	1	45	21	37	16	40	23	20	10	40	24	39	31	31	13	.....	.....	33	24	30	20	31	20	25	18	30	24
12....	32	8	44	34	27	1	44	36	36	12	52	33	49	34	28	6	.....	.....	43	21	33	14	34	20	28	17	42	28
13....	41	31	47	33	42	27	44	37	43	32	44	26	46	38	49	14	.....	.....	47	36	40	24	41	32	34	26	38	30
14....	43	31	41	25	41	33	45	30	49	33	46	30	51	40	34	14	.....	.....	47	28	37	25	40	24	35	32	41	35
15....	33	25	34	24	41	24	38	27	40	27	40	28	47	40	42	11	.....	.....	41	25	28	18	40	24	37	22	40	32
16....	41	29	44	31	44	22	36	30	43	27	43	32	47	34	36	18	.....	.....	42	32	32	20	37	32	35	28	38	30
17....	30	21	40	27	39	26	38	28	37	19	45	31	41	33	33	14	.....	.....	34	30	27	18	34	27	34	22	31	21
18....	28	12	29	22	33	20	35	30	36	15	42	26	46	32	20	-8	.....	.....	35	26	18	10	31	13	30	20	26	18
19....	25	11	28	14	36	26	36	30	29	16	40	31	41	32	34	2	.....	.....	29	23	16	6	33	23	29	13	35	12
20....	25	20	33	22	35	17	39	26	30	17	42	31	45	31	30	3	.....	.....	31	18	14	5	32	19	27	15	37	24
21....	36	24	40	24	34	3	37	22	41	21	42	30	47	34	36	5	.....	.....	38	15	11	0	37	16	46	24	44	33
22....	34	15	45	19	29	-6	35	20	39	29	40	32	47	33	36	13	.....	.....	39	19	18	4	39	16	33	10	34	26
23....	31	15	34	23	37	0	30	21	37	27	35	25	42	31	37	14	.....	.....	39	22	15	2	39	16	33	12	43	29
24....	31	18	44	20	37	19	56	27	35	23	42	38	41	33	33	10	.....	.....	44	25	25	22	39	26	32	8	38	26
25....	46	28	45	31	50	25	51	37	49	30	55	40	50	41	45	21	.....	.....	50	38	38	20	43	34	44	28	39	36
26....	35	31	41	34	51	26	50	36	39	27	62	36	52	36	42	25	.....	.....	49	30	41	20	44	31	37	25	38	34
27....	34	22	40	28	43	2	40	31	41	26	50	30	42	36	36	14	.....	.....	36	24	28	16	37	20	35	12	35	31
28....	38	29	38	30	35	16	39	30	41	22	46	30	48	38	38	14	.....	.....	35	29	34	18	37	25	29	21	38	32
29....	44	28	43	32	40	22	37	31	51	32	43	26	52	36	36	17	.....	.....	39	31	40	26	36	25	31	24	44	34
30....	46	28	46	28	48	24	34	31	48	28	46	27	54	36	41	13	.....	.....	44	29	35	17	37	19	45	27	41	32
31....	35	16	39	20	43	18	38	28	41	27	40	32	49	30	35	14	.....	.....	36	23	26	5	34	22	32	10	35	22
Mns..	26.5	13.4	34.4	18.8	34.0	10.7	35.5	22.1	32.6	15.9	39.7	23.6	40.4	27.7	31.7	6.9	.....	.....	35.6	20.0	23.7	7.7	33.3*	17.1*	27.6	12.5	32.1	21.8

Washington.

Date.	Aberdeen.		Blaine.		Colville.		Kosmos.		Lakeside.		North Head.		North Yakima.		Odessa.		Port Crescent.		Seattle.		Sixprong.		Spokane.		Tacoma.		Tatoosh Island.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	40	22	26	10	10	-13	33	24	21	9	39	32	26	3	19	-16	38	22	35	25	27	12	14	-4	32	24	39	32
2....	36	30	29	16	6	-19	33	23	11	4	39	34	20	4	9	-18	35	31	37	21	15	1	38	27	37	34		
3....	38	29	30	25	7	-15	33	22	13	-	40	33	17	11	11	-9	39	30	39	31	23	7	1	39	28	39	35	
4....	34	28	30	16	8	-18	34	16	12	-2	46	33	17	3	18	-8	34	31	38	29	15	8	17	4	36	26	42	33
5....	38	31	32	28	15	-8	38	32	13	4	45	38	19	4	15	-7	46	32	42	34	23	5	18	13	43	35	46	39
6....	45	31	32	27	13	-5	35	28	20	6	41	35	21	12	17	-8	38	28	39	31	18	13	5	37	29	40	34	
7....	36	26	30	12	10	-13	28	18	4	38	30	19	0	10	-14	36	24	35	27	12	3	17	-5	33	24	37	32	
8....	42	24	26	9	2	-17	32	9	9	3	46	30	8	-12	10	-11	33	24	42	24	10	-9	11	-12	41	21	36	31
9....	45	36	34	24	9	-8	37	32	14	5	46	41	19	3	12	5	41	32	44	41	18	-2	25	10	44	39	45	36
10....	47</td																											

TABLE 3.—Maximum and minimum temperatures for February, 1912. District No. 12—Continued.

Date.	Walla Walla, Wash.		Oregon.																					
			Ashland.		Baker.		Eugene.		Gold Beach.		Hermiston.		Marshfield.		Portland.		Prineville.		Roseburg.		The Dalles.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.....	29	10	34	27	27	10	37	27	48	37	38	8	46	27	36	29	14	38	32	30	13	34	22	
2.....	18	12	29	20	24	0	38	25	45	34	28	12	44	25	35	28	11	36	29	36	22	31	3	
3.....	14	10	23	14	20	— 3	36	23	46	35	24	13	48	22	38	26	18	— 6	42	22	25	20	— 9	
4.....	11	4	26	14	18	— 4	27	27	47	33	17	4	38	26	29	24	29	— 5	35	25	23	18	— 10	
5.....	23	10	35	23	26	12	45	34	48	34	23	12	51	34	38	27	20	— 5	47	34	32	12	24	
6.....	17	10	39	30	25	19	50	37	52	40	22	13	51	41	35	28	40	21	50	40	26	17	22	
7.....	18	4	48	37	23	— 10	51	27	51	44	— 3	51	43	30	22	37	— 16	50	34	20	5	26	17	
8.....	14	— 6	46	32	13	— 12	42	25	51	43	— 21	53	33	34	20	29	10	54	35	10	— 11	20	— 24	
9.....	43	3	44	37	32	8	50	38	52	46	— 1	52	48	45	31	44	10	52	41	24	8	23	4	
10.....	43	16	42	35	31	16	47	40	53	45	— 15	51	41	44	36	44	16	50	41	40	21	24	— 3	
11.....	23	14	41	31	28	2	48	37	51	42	— 16	49	38	50	35	38	— 3	52	38	37	23	24	2	
12.....	54	23	50	42	39	27	55	46	54	49	18	53	49	58	50	32	23	56	50	37	24	33	19	
13.....	58	46	48	35	42	33	60	47	57	52	— 33	59	51	57	53	54	34	61	49	48	31	40	29	
14.....	59	39	45	39	39	31	58	41	55	45	— 28	57	40	54	43	54	31	50	43	40	34	39	28	
15.....	45	35	47	39	40	34	55	41	54	47	— 29	52	45	47	40	53	31	50	45	38	33	36	25	
16.....	36	34	45	40	39	32	48	44	53	47	— 32	50	46	45	41	50	32	50	45	39	33	38	30	
17.....	36	28	50	33	40	20	59	44	51	41	— 31	54	42	48	38	49	32	55	41	39	34	36	16	
18.....	30	26	50	40	32	18	51	36	54	45	— 21	56	44	45	37	35	21	50	41	38	33	34	21	
19.....	38	29	50	38	36	25	44	38	57	48	— 25	51	44	44	37	45	25	46	36	38	31	37	30	
20.....	36	29	61	47	35	26	51	40	59	51	— 40	28	60	42	46	38	45	32	63	42	39	32	37	
21.....	34	30	62	34	37	23	49	33	55	46	— 31	67	34	53	37	50	23	48	37	38	33	36	24	
22.....	35	30	57	42	35	20	55	36	58	44	— 37	60	39	47	38	54	24	54	38	39	33	33	14	
23.....	34	27	56	42	33	17	50	35	62	47	— 27	55	39	44	37	40	20	59	40	36	33	30	11	
24.....	60	32	56	47	38	29	56	42	60	54	— 37	32	58	51	55	41	50	34	61	50	37	33	27	
25.....	54	38	49	42	42	34	54	46	54	46	— 33	55	48	53	45	50	28	50	44	39	34	38	31	
26.....	52	37	53	38	43	29	54	44	52	45	— 32	50	45	54	44	52	33	52	44	39	34	45	33	
27.....	50	40	47	32	39	27	51	40	51	43	— 32	53	38	49	43	50	29	52	38	45	32	47	23	
28.....	52	42	51	31	37	31	57	43	56	47	— 51	37	59	47	56	45	50	29	58	42	41	35	44	24
29.....	61	44	45	35	39	30	60	43	59	49	— 55	31	59	37	56	41	50	30	62	39	38	33	37	33
30.....	52	39	51	40	36	29	53	46	58	49	— 51	33	59	48	49	45	50	26	57	46	43	33	38	32
31.....	39	31	53	35	29	19	51	38	55	43	— 25	63	39	55	37	44	28	58	41	45	35	36	24	
Means.....	37.7	24.7	46.4	34.5	32.8	18.5	50.1	37.5	51.9	44.2	37.7	21.0	53.8	40.4	46.1	36.6	42.2	19.7	51.5	39.4	35.5	25.8	33.1	16.7

e, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

Data are from standard instruments not supplied by the U. S. Weather Bureau.

Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.